

Scenario 2: Replanning

(subsystems involved: PLS, DPS, DSS)

Background - On Tuesday morning, a processor fails. It is expected that the processor will not be restored to service for at least 3 hours. The remaining processors of the same category are insufficient to accomplish the standard production processing objectives for the day. Adjusting priorities will insure that standard production processing will be accomplished at the expense of reprocessing. There are no “urgent” needs for the reprocessed data and the expected standard products are of current interest, so it is decided to adjust the priorities. However, the currently active plan will be very inaccurate with a few hours. It is decided to execute a replan.

Timeframe	Operator	ECS
-	The processor fails.	- Planning Subsystem provides tools for impact assessment.
< 1hr	Production scheduler evaluates current schedule & impacts.	
within 1 hour of failure	Production monitor lowers the priorities of the existing reprocessing jobs to halt all reprocessing. The Production Scheduler generates a new schedule to reflect situation.	Planning Subsystem supports replanning.

Scenario 2: Replanning (cont.)

Timeframe	Operator	ECS
within 2 hours of notice	Operator transfers revised plan to Data Server for subscription access to notify users of plan changes.	Planning subsystem outputs plan in text format for retrieval and display
End of processing day	Production Scheduler notes that Standard Processing objectives have been achieved. When generating the next daily schedule, reprocessing is given a somewhat higher than normal priority level to compensate for lost reprocessing time.	Planning subsystem provides displays for evaluation of processing planned vs. achieved. Processing priorities are adjustable.